

AD-A087 535

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
19306B MLRS, MISSILE NUMBER 1127, ROUND NUMBER V-111, 4 FEBRUAR--ETC(U)
FEB 80

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18. SUPPLEMENTARY NOTES			
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19306B MLRS, Missile Number 1127, Round Number V-111 are presented in tabular form.			

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UNCLASSIFIED

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INTRODUCTION

19306B MLRS, Missile Number 1127, Round Number V-111,
was launched from SNAKE, White Sands Missile Range (WSMR), New Mexico,
at 1406 MST, 04 Feb 80. The scheduled launch time was 1000:12
MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the Snake Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RPTS T-9 pibal observation at:

SITE AND ALTITUDE

Snake	360 Meters
Denver	2 KM

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 83,500 feet in 500-foot increments.

SITE AND TIME

Jallen 1400 MST

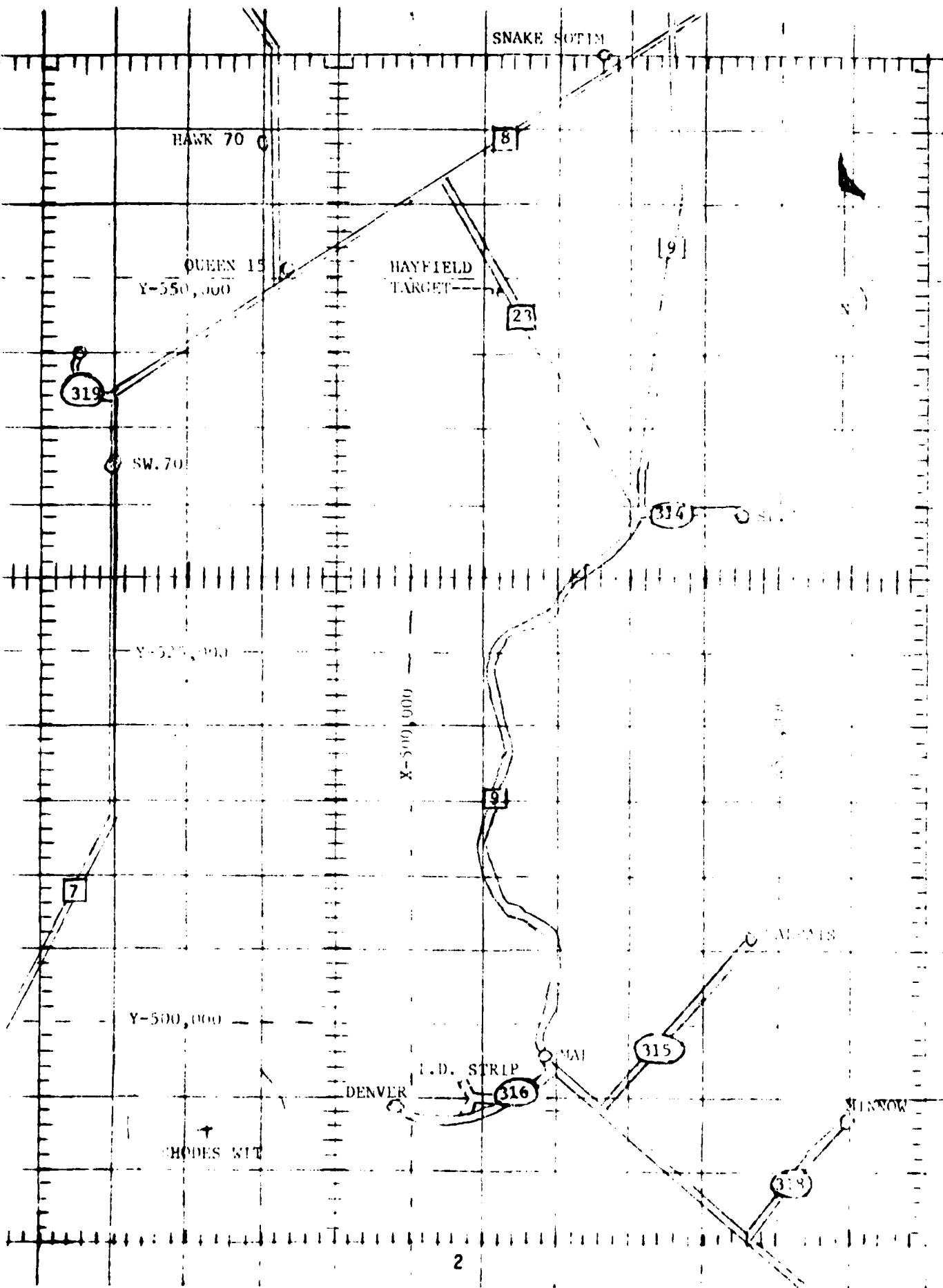


TABLE 1. Surface Observations taken at 1405 MST,
04 February 1980, at Snake Site, 19306B
MLRS, Missile Number 1127, Round Number
V-111.

ELEVATION	Unknown	FT/MSL
PRESSURE	863.2	MBS
TEMPERATURE	22.4	°C
RELATIVE HUMIDITY	20	%
DEW POINT	-1.8	°C
DENSITY	1014	GM/M ³
WIND SPEED	09	KTS
WIND DIRECTION	295	DEGREES
CLOUD COVER	6	CI

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM Snake DATE 04 February 1980 TIME 1350 MST

TRACKER	COORDINATES (WSTM)	X=	Unk	Y	Unk	H	Unk
---------	--------------------	----	-----	---	-----	---	-----

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM Snake DATE 04 February 1980 TIME 1405 MST

TRACKER COORDINATES (WSTM) X= Unk Y= Unk H= Unk

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL xx OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM Denver Site

DATE 04 February 1980

TIM 1420 MST

TRACKER

COORDINATES (WSTM)

X= Unk

Y - Unk

" Unk

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

STATION ALTITUDE 4051.00 FEET MSL
4 FEB. 49
ASCENSION NO. 34

SIGNIFICANT LEVEL DATA
0500Z J004
JALLEN
TABLE 5

GEODETIC COORDINATES
33.10712 LAT NEG
106.49511 LONG NEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUMID. PERCENT
	AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	
878.0	20.0	1.0	48.0
867.0	16.0	1.0	30.0
858.0	15.0	.1	36.0
829.0	13.1	-1.2	37.0
789.6	12.0	-4.2	32.0
700.0	4.8	-10.1	33.0
641.0	-2	-11.0	42.0
590.2	-5.0	-17.4	37.0
532.8	-9.3	-22.2	34.0
500.0	-13.6	-24.0	38.0
475.0	-16.4	-25.3	46.0
445.7	-16.6	-24.1	53.0
440.6	-21.2	-29.0	49.0
433.6	-21.2	-32.5	35.0
400.0	-25.7	-37.8	31.0
320.0	-39.7	-40.1	40.0
300.0	-44.0	-49.5	54.0
250.0	-54.2		
200.0	-64.6		
187.6	-65.6		
178.6	-62.4		
157.4	-61.0		
150.0	-63.0		
141.8	-61.1		
130.0	-62.2		
116.6	-65.4		
106.0	-64.6		
100.0	-62.4		
82.4	-64.0		
76.6	-61.9		
70.0	-64.0		
65.2	-64.0		
58.8	-65.0		
55.4	-66.0		
50.0	-57.5		
41.0	-59.6		
35.0	-55.1		
30.0	-56.6		
20.2	-55.9		
25.0	-49.7		

STATION ALTITUDE 4051.00 FEET MSL
4 FEB. 50 1407 HRS MSL
ASCENSION NO. 34

UPPER AIR DATA
0350000034
JALLEN
TABLE 6

GEODETIC COORDINATES
33.10712 LAT DEG
106.49511 LONG DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	878.0	20.0	28.0	1040.4	668.0	00	00	1.000261
4500.0	864.9	15.8	36.0	1033.8	663.2			1.000261
5000.0	848.7	14.9	36.1	1023.6	662.1			1.000256
5500.0	833.5	13.5	36.8	1010.3	660.4			1.000251
6000.0	818.3	12.8	35.7	994.7	659.6			1.000246
6500.0	803.8	12.4	33.6	978.3	659.1			1.000241
7000.0	789.3	12.0	32.0	962.3	658.5			1.000235
7500.0	774.9	10.9	32.2	948.5	657.2			1.000231
8000.0	760.8	9.8	32.3	934.9	655.9			1.000227
8500.0	746.9	8.7	32.5	921.5	654.0			1.000223
9000.0	733.3	7.6	32.6	908.3	653.3			1.000219
9500.0	719.9	6.5	32.8	895.3	652.0			1.000215
10000.0	705.7	5.4	32.9	882.0	650.7			1.000211
10500.0	693.7	4.3	33.9	859.7	649.4			1.000208
11000.0	680.7	3.2	35.9	836.9	648.1			1.000205
11500.0	668.0	2.1	37.8	844.2	646.8			1.000202
12000.0	655.6	1.0	39.8	831.7	645.6			1.000198
12500.0	643.4	-1.1	41.7	819.5	644.3			1.000195
13000.0	631.2	-1.2	41.0	807.3	642.9			1.000192
13500.0	619.2	-2.3	39.9	795.2	641.0			1.000188
14000.0	607.4	-3.4	38.7	783.4	640.3			1.000184
14500.0	595.9	-4.5	37.0	771.8	638.9			1.000181
15000.0	584.3	-5.4	36.7	759.7	637.0			1.000177
15500.0	573.2	-6.2	36.1	747.4	636.0			1.000174
16000.0	562.1	-7.0	35.6	735.3	635.0			1.000171
16500.0	551.3	-7.9	35.0	723.3	634.8			1.000167
17000.0	540.0	-8.7	34.4	711.6	633.8			1.000164
17500.0	530.1	-9.6	34.3	700.3	632.6			1.000161
18000.0	519.7	-11.0	35.6	690.1	631.0			1.000159
18500.0	509.5	-12.3	36.8	680.1	629.4			1.000156
19000.0	499.5	-13.7	38.2	670.2	627.7			1.000154
19500.0	489.0	-14.9	41.7	660.0	626.2			1.000152
20000.0	479.8	-16.2	45.3	650.0	624.7			1.000149
20500.0	470.2	-17.5	52.4	640.2	623.1			1.000147
21000.0	460.7	-18.7	51.3	630.4	621.7			1.000145
21500.0	451.4	-19.8	50.2	620.4	620.2			1.000142
22000.0	442.3	-21.0	49.2	610.7	618.8			1.000139
22500.0	433.3	-21.2	35.0	590.9	616.4			1.000136
23000.0	424.3	-22.9	33.9	580.4	617.0			1.000133
23500.0	415.6	-23.6	32.9	570.4	615.0			1.000131

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.90 FEET MSL
4 FEB. 60 1400 HRS MST
ASCENDING 110. 34

UPPER AIR DATA

0350030034

JALLEN

TABLE 6 (cont)

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	407.1	-24.7	-36.6	31.9	570.7	614.1	305.1	48.6	1.000129
24500.0	398.7	-25.9	-37.9	31.1	561.6	612.0	305.9	47.4	1.000127
25000.0	390.1	-27.3	-38.9	32.0	552.6	610.9	305.0	46.1	1.000124
25500.0	381.8	-28.6	-39.8	32.9	543.8	609.3	305.5	44.4	1.000122
26000.0	373.7	-30.0	-40.8	33.7	535.2	607.6	305.4	42.5	1.000120
26500.0	365.7	-31.3	-41.8	34.6	526.7	605.9	305.3	43.1	1.000118
27000.0	357.9	-32.7	-42.7	35.5	518.4	604.2	304.2	43.9	1.000116
27500.0	350.3	-34.0	-43.7	36.4	510.2	602.5	297.7	44.7	1.000114
28000.0	342.8	-35.4	-44.8	37.2	502.2	600.8	294.3	45.6	1.000113
28500.0	335.5	-36.7	-45.8	38.1	494.3	599.0	293.2	47.2	1.000111
29000.0	328.3	-38.1	-46.8	39.0	486.5	597.3	292.2	48.8	1.000109
29500.0	321.3	-39.4	-47.9	39.8	478.9	595.0	291.4	50.0	1.000107
30000.0	314.2	-40.9	-48.4	43.9	471.3	593.7	290.0	51.1	1.000106
30500.0	307.3	-42.4	-48.8	48.8	463.9	591.8	289.7	51.5	1.000104
31000.0	300.5	-43.9	-49.4	53.7	456.5	589.9	288.8	51.6	1.000102
31500.0	293.6	-45.2	-51.7	47.6**	448.7	588.2	286.2	51.5	1.000100
32000.0	286.9	-46.5	-54.2	40.8**	440.9	586.5	287.9	51.4	1.000098
32500.0	280.3	-47.8	-56.4	33.9**	433.3	584.8	288.2	51.9	1.000097
33000.0	273.9	-49.1	-59.3	27.1**	425.9	583.2	286.6	52.9	1.000095
33500.0	267.6	-50.4	-63.1	20.2**	418.5	581.5	290.2	54.0	1.000093
34000.0	261.3	-51.7	-67.2	13.3**	411.4	579.8	292.1	55.3	1.000092
34500.0	255.2	-53.0	-73.2	6.5**	404.3	578.1	293.9	57.0	1.000090
35000.0	249.7	-54.3			397.4	576.4	295.2	59.5	1.000088
35500.0	243.7	-55.4			389.9	574.9	296.4	62.0	1.000087
36000.0	237.9	-56.6			382.6	573.3	297.2	64.8	1.000085
36500.0	232.2	-57.7			375.4	571.8	298.0	67.7	1.000084
37000.0	226.6	-58.9			368.4	570.3	298.4	69.3	1.000082
37500.0	221.2	-60.0			361.5	568.7	299.4	70.5	1.000081
38000.0	215.9	-61.2			354.8	567.2	298.4	71.1	1.000079
38500.0	210.7	-62.3			348.1	565.7	297.9	70.4	1.000078
39000.0	205.6	-63.5			341.7	564.1	297.2	68.9	1.000076
39500.0	200.7	-64.6			335.3	562.6	296.4	67.3	1.000075
40000.0	195.8	-65.1			327.8	562.0	295.2	65.5	1.000073
40500.0	191.0	-65.4			320.2	561.0	294.0	63.6	1.000071
41000.0	186.3	-65.1			312.0	561.9	292.2	62.8	1.000069
41500.0	181.7	-65.3			304.0	564.0	290.4	62.3	1.000067
42000.0	177.3	-62.3			295.0	563.7	288.3	61.8	1.000065
42500.0	173.9	-62.0			285.5	566.0	286.1	61.1	1.000064
43000.0	168.8	-61.8			276.2	568.4	283.6	60.4	1.000062
43500.0	164.7	-61.5			271.2	570.8	282.4	59.1	1.000060

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
4 FEB. 40
ASCENSION NO. 34

UPPER AIR DATA
0350030034
JALLEN
TABLE 6 (cont)

GEODETTIC COORDINATES
33.16712 LAT LEG
106.49511 LONG LEG

GEO-ETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA		INDEX OF REFRACTION
							SPEED	KNOTS	
44000.0	160.8	-61.2		264.3	507.1	281.2	57.5		1.000059
44500.0	156.9	-61.1		257.7	507.2	281.0	56.7		1.000057
45000.0	153.1	-62.2		252.7	505.9	281.7	56.5		1.000056
45500.0	149.4	-62.9		247.4	505.0	282.0	56.2		1.000055
46000.0	145.7	-62.0		240.5	500.1	284.2	55.8		1.000054
46500.0	142.2	-61.2		233.7	507.2	285.0	55.4		1.000052
47000.0	138.8	-61.4		226.3	500.9	288.5	56.0		1.000051
47500.0	135.4	-61.7		223.1	500.5	291.3	56.9		1.000050
48000.0	132.1	-62.0		219.0	500.0	293.0	58.5		1.000049
48500.0	128.9	-62.6		215.3	505.3	295.7	61.3		1.000048
49000.0	125.8	-63.3		208.8	504.4	297.5	64.2		1.000046
49500.0	122.7	-64.0		200.3	503.5	293.7	64.3		1.000040
50000.0	119.7	-64.7		207.0	502.5	299.2	63.0		1.000045
50500.0	116.8	-65.4		195.8	501.0	301.0	61.7		1.000044
51000.0	113.9	-65.2		190.8	501.8	302.0	59.5		1.000042
51500.0	111.1	-65.0		185.9	502.1	303.1	57.3		1.000041
52000.0	108.4	-64.7		181.2	502.4	304.0	55.6		1.000040
52500.0	105.7	-64.3		176.4	503.0	304.5	55.0		1.000039
53000.0	103.2	-63.5		171.4	504.1	304.0	54.4		1.000038
53500.0	100.6	-62.6		166.5	505.3	305.1	52.1		1.000037
54000.0	98.2	-62.6		162.4	505.4	305.0	48.7		1.000036
54500.0	95.8	-62.8		158.6	505.1	308.2	45.2		1.000035
55000.0	93.5	-63.0		154.9	504.6	307.2	40.8		1.000034
55500.0	91.2	-63.2		151.3	504.3	308.0	36.0		1.000034
56000.0	89.0	-63.4		147.7	504.3	310.3	31.3		1.000033
56500.0	86.8	-63.6		144.3	504.0	311.4	28.6		1.000032
57000.0	84.7	-63.8		140.9	503.7	312.0	25.9		1.000031
57500.0	82.6	-64.0		137.6	503.4	313.9	23.4		1.000031
58000.0	80.6	-63.4		133.9	504.3	314.9	21.6		1.000030
58500.0	78.7	-62.8		130.2	505.3	315.0	19.8		1.000029
59000.0	76.8	-61.9		126.6	500.2	317.3	18.0		1.000028
59500.0	74.9	-62.7		124.0	505.2	319.4	15.8		1.000028
60000.0	73.1	-63.5		121.4	504.1	322.0	13.8		1.000027
60500.0	71.3	-64.2		118.9	503.1	324.5	12.2		1.000026
61000.0	69.5	-65.1		116.4	501.9	317.3	15.8		1.000026
61500.0	67.8	-66.2		114.2	500.4	312.9	19.5		1.000025
62000.0	66.1	-67.3		112.0	500.9	309.0	23.4		1.000025
62500.0	64.5	-67.7		109.4	500.4	308.9	29.8		1.000024
63000.0	62.9	-67.0		106.9	509.4	305.0	36.2		1.000024
63500.0	61.4	-68.2		103.3	500.4	303.7	42.6		1.000023

STATION ALTITUDE 4051.00 FEET MSL
4 FEB. 30 1400 HRS MSL
ASCLP. SAU. NO. 34

UPPER AIR DATA
05500300Z
JALLER
TABLE 6 (cont)

CELESTIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
0400.0	59.9	-65.5			107.4	501.4	303.7	41.4	1.000022
0450.0	50.4	-65.1			97.8	501.9	303.9	39.6	1.000022
0500.0	50.9	-65.5			95.5	501.3	304.1	37.0	1.000021
0550.0	55.5	-66.0			93.4	500.8	304.4	31.6	1.000021
0600.0	54.2	-64.2			90.3	503.2	304.7	25.0	1.000020
0650.0	52.9	-62.2			87.3	505.9	305.3	18.2	1.000019
0700.0	51.6	-60.1			84.4	508.6	306.0	12.9	1.000019
0750.0	50.4	-58.1			81.6	511.3	310.1	9.1	1.000018
0800.0	49.2	-57.7			79.5	511.8	318.2	5.3	1.000018
0850.0	48.0	-58.0			77.7	511.5	339.6	3.1	1.000017
0900.0	46.9	-58.5			75.0	511.1	340.8	4.9	1.000017
0950.0	45.7	-53.5			74.2	510.7	341.2	6.7	1.000017
7000.0	44.6	-50.8			72.6	510.3	341.5	8.5	1.000016
7350.0	43.6	-59.1			70.9	510.0	340.9	10.4	1.000016
7400.0	42.5	-59.4			65.3	509.0	340.4	12.3	1.000015
7450.0	41.5	-59.4			67.7	509.5	340.1	14.2	1.000015
7500.0	40.6	-53.8			65.9	510.3	340.9	15.3	1.000015
7550.0	39.6	-58.2			64.2	511.1	342.9	15.5	1.000014
7600.0	38.7	-57.6			62.5	511.9	344.9	15.8	1.000014
7650.0	37.7	-57.0			60.8	512.7	340.7	16.0	1.000014
7700.0	36.9	-56.4			59.2	513.5	340.0	15.2	1.000013
7750.0	36.0	-55.8			57.7	514.3	334.1	14.7	1.000013
7800.0	35.1	-55.2			56.2	515.1	327.0	14.3	1.000013
7850.0	34.3	-55.5			54.9	515.0	317.3	12.8	1.000012
7900.0	33.5	-55.5			53.6	514.7	301.6	10.8	1.000012
7950.0	32.7	-55.5			52.4	514.4	281.5	9.9	1.000012
8000.0	31.9	-56.0			51.2	514.1	263.1	10.6	1.000011
8050.0	31.2	-56.2			50.1	513.0	263.7	14.2	1.000011
8100.0	30.5	-56.5			49.0	513.5	264.0	17.7	1.000011
8150.0	29.7	-56.5			47.8	513.4	264.3	21.2	1.000011
8200.0	29.0	-56.2			46.7	513.8	260.7	25.7	1.000010
8250.0	28.4	-56.0			45.5	514.1	262.2	30.4	1.000010
8300.0	27.7	-55.4			44.3	514.9	274.8	35.2	1.000010
8350.0	27.1	-54.7			43.2	515.9	277.2	30.1	1.000010
8400.0	26.4	-53.9			42.0	516.8	282.5	19.2	1.000009
8450.0	25.8	-53.2			40.9	517.7	300.7	8.0	1.000009
8500.0	25.2	-52.5			39.8	518.7			1.000009
8550.0	24.6	-51.8			38.6	519.8			1.000009
8600.0	24.1	-51.1			37.3	520.5			1.000008
8650.0	23.5	-50.4			36.0	521.5			1.000008

STATION ALTITUDE 4051.00 FEET MSL
 4 FEB. 60 1400 HRS MSL
 ASCENSION NO. 34

MANDATORY LEVELS
 0350030034
 JALLEN
 TABLE 7

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMIDITY PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEW POINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4953.	15.0	.1	36.	9999.0	9999.0XX
800.0	6626.	12.3	-3.4	33.	9999.0	9999.0XX
750.0	8390.	8.9	-6.7	32.	298.2	13.9
700.0	10250.	4.8	-10.1	33.	305.9	20.1
650.0	12217.	.5	-11.3	41.	308.3	31.5
600.0	14308.	-4.1	-16.2	39.	303.6	30.6
550.0	16543.	-8.0	-20.7	35.	301.4	45.8
500.0	18950.	-13.6	-24.8	38.	298.3	47.0
450.0	21546.	-20.0	-27.7	30.	298.2	46.4
400.0	24383.	-25.7	-37.6	31.	305.9	47.6
350.0	27505.	-34.1	-43.8	30.	297.4	44.7
300.0	30974.	-44.0	-49.5	34.	268.7	51.6
250.0	34900.	-54.2			295.1	59.3
200.0	39492.	-64.8			296.2	67.1
175.0	42161.	-62.2			287.2	61.4
150.0	45294.	-63.0			282.3	56.3
125.0	48992.	-63.4			297.8	64.9
100.0	53459.	-62.4			305.2	51.4
80.0	57970.	-63.1			315.1	41.1
70.0	60655.	-64.8			319.2	14.6
60.0	63725.	-65.6			303.7	41.6
50.0	67401.	-57.5			311.3	8.2
40.0	72000.	-58.5			341.9	15.4
30.0	77906.	-56.6			204.2	19.7
25.0	81321.	-52.2				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.